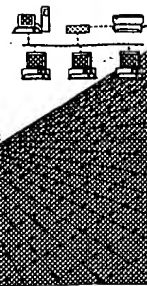


BIOTECHNOLOGY
SYSTEMS
BRANCH



0102

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/883,343
Source: 0102
Date Processed by STIC: 1/11/2002

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission

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2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

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Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

OIPE

RAW SEQUENCE LISTING

DATE: 01/11/2002

PATENT APPLICATION: US/09/883,343

TIME: 12:25:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

**Does Not Comply
Corrected Diskette Needed**

2 <110> APPLICANT: Stiles, Michael E. Verderas, John C. Van Belkum, Marius J.
 3 Worobo, Randy W. Worobo, Rodney J. McCormick, John K.
 4 McMullen, Lynn M. Leisner, Jorgen J. Poon, Alison Franz,
 W--> 5 <120> TITLE OF INVENTION: Novel Bacteriocins, Transport and Vector System and Method
 W--> 6 <130> FILE REFERENCE: C60007.1US <140> US 09/883,343 <141> 2001-06-19 <150>
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/883,343
 C--> 7 <141> CURRENT FILING DATE: 2001-06-19
 7 <150> PRIOR APPLICATION NUMBER: 1997-09-05 <150> 60/026,257 <151> 1996-09-05 <160> 64
 W--> 0 <160> NUMBER OF SEQ ID NOS:
 8 <170> SOFTWARE: PatentIn version 3.1 <210> 1 <211> 184 <212> DNA <213> Leuconostoc

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 21 Met Lys Lys Gln Ile Leu
 22 1 5
 24 aaa ggg ttg gtt ata gtt gtt tgt tta tct ggg gca aca ttt ttc tca 103
 25 Lys Gly Leu Val Ile Val Val Cys Leu Ser Gly Ala Thr Phe Phe Ser
 26 10 15 20
 28 aca cca caa caa gct tct gct gta aat tat ggt aat ggt gtt tct tgc 151
 29 Thr Pro Gln Gln Ala Ser Ala Val Asn Tyr Gly Asn Gly Val Ser Cys
 30 25 30 35
 32 agt aaa aca aaa tgt tca gtt aac tgg gga caa 184
 33 Ser Lys Thr Lys Cys Ser Val Asn Trp Gly Gln
 34 40 45

All next page

insert last returns after
each response

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2

SEQUENCE LISTING

<110> Stiles, Michael E. ✓ Verderas, John C. ✓ Van Belkum, Marius J. ✓
Worobo, Randy W. ✓ Worobo, Rodney J. ✓ McCormick, John K. ✓
McMullen, Lynn M. ✓ Leisner, Jorgen J. ✓ Poon, Alison ✓ Franz,
Charles MAP ✓ <120> Novel Bacteriocins, Transport and Vector System and Method
of Use Thereof ✓ <130> C60007.1US ✓ <140> US 09/883,343 ✓ <141> 2001-06-19 ✓ <150>
08/924,629 ✓ <151> 1997-09-05 ✓ <150> 60/026,257 ✓ <151> 1996-09-05 ✓ <160> 64 ✓
<170> PatentIn version 3.1 ✓ <210> 1 ✓ <211> 184 ✓ <212> DNA ✓ <213> Leuconostoc
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<400> 1

(sampled submitted file)

major format error - please contact Robert Wax
at 703-306-4119
or 703-308-4216
for assistance

see next page

hard return

09/883,343

3

This is a nucleotide sequence

<210> 22 <211> 124 <212> DNA <213> Divergicin signal peptide <220> ↑ <221> ↑
sig_peptide <222> (1)..(123) <223>

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1 5 10 15
aat ttt aaa agg gtt ggt tat agt tgt ttg ttt atc tgg ggc aac att 96
Asn Phe Lys Arg Val Gly Tyr Ser Cys Leu Phe Ile Trp Gly Asn Ile
20 25 30
ttt ctc aac acc aca aca agc ttc tgc t 124
Phe Leu Asn Thr Thr Thr Ser Phe Cys
35 40

FSI

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

Please correct
any sequences
showing
similar error

VERIFICATION SUMMARY

DATE: 01/11/2002

PATENT APPLICATION: US/09/883,343

TIME: 12:25:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier
L:6 M:283 W: Missing Blank Line separator, <130> field identifier
L:7 M:270 C: Current Application Number differs, Replaced Current Application No
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:0 M:282 W: Numeric Field Identifier Missing, <160> is required.
L:9 M:283 W: Missing Blank Line separator, <220> field identifier
L:9 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:11 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:13 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:15 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:17 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:19 M:282 W: Numeric Field Identifier Missing, <210> is required.
L:19 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:19 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:19 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:19 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:1
L:40 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:40 M:282 W: Numeric Field Identifier Missing, <212> is required.
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L:549 M:282 W: Numeric Field Identifier Missing, <211> is required.
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L:572 M:282 W: Numeric Field Identifier Missing, <213> is required.
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L:595 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:595 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:732 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:732 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:732 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:801 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:801 M:282 W: Numeric Field Identifier Missing, <212> is required.
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L:933 M:282 W: Numeric Field Identifier Missing, <212> is required.
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L:1002 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:1004 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:1004 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:1004 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:1059 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:1061 M:282 W: Numeric Field Identifier Missing, <211> is required.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,343

DATE: 01/11/2002

TIME: 12:25:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

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 L:1190 M:282 W: Numeric Field Identifier Missing, <213> is required.
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 L:1227 M:282 W: Numeric Field Identifier Missing, <212> is required.
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 L:1440 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
 L:1442 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
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 L:1446 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
 L:1448 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
 L:1450 M:282 W: Numeric Field Identifier Missing, <211> is required.
 L:1450 M:282 W: Numeric Field Identifier Missing, <212> is required.
 L:1450 M:282 W: Numeric Field Identifier Missing, <213> is required.
 L:1771 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
 L:1772 M:259 W: Allowed number of lines exceeded, <220> FEATURE:
 L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (17)